

LISTING OF CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1-2 (Canceled):

Claim 3 (New): A liquid crystal display apparatus comprising:

a liquid crystal panel;

a light source provided on a surface of said liquid crystal panel,

wherein said liquid crystal panel is displayed in a double refraction mode, and has a characteristic of spectral transmittance required to satisfy the following equation, $x > y > z$, when a drive voltage is applied thereto, in the range of a minimum voltage required for a visual display on said liquid crystal panel to a maximum voltage, where:

“x” equals a value of the transmittance in said liquid crystal panel at a wavelength which corresponds to a longest wavelength in the range of wavelengths designated for blue light illuminated from said light source;

“y” equals a value of the transmittance in said liquid crystal panel at a wavelength which corresponds to a maximum value of the intensity in the range of wavelengths designated for green light illuminated from said light source; and

“z” equals a value of the transmittance in said liquid crystal panel at a wavelength which corresponds to a maximum value of the intensity in the range of wavelengths designated for yellow light illuminated from said light source.

Claim 4 (New): A liquid crystal display apparatus according to

claim 3, wherein the range of wavelengths designated for blue light illuminated from said light source corresponds to 400 nm to 500 nm, the range of wavelengths designated for green light illuminated from said light source corresponds to 500 nm to 600 nm, and the range of wavelengths designated for yellow light illuminated from said light source corresponds to 600 nm to 700nm.

Claim 5 (New): A liquid crystal display apparatus according to claim 3, further comprising:

a pair of polarizers arranged so as to sandwich a pair of substrates in said liquid crystal panel; and

a birefringent film arranged between a polarizer and a substrate.

Claim 6 (New): A liquid crystal display apparatus according to claim 5, further comprising a plurality of electrodes provided on at least one of said pair of substrates in said liquid crystal panel to produce an electric field substantially in parallel with surfaces of said pair of substrates.

Claim 7 (New): A liquid crystal display apparatus comprising:
a liquid crystal panel;
a light source provided on a surface of said liquid crystal panel,
wherein said liquid crystal panel is displayed in a double refraction mode, and
has a characteristic of spectral transmittance required to satisfy the following equation, $x > y > z$, when a drive voltage is applied thereto, from a dark state to a light state, where:

“x” equals a value of the transmittance in said liquid crystal panel at a wavelength which corresponds to a longest wavelength in the range of wavelengths designated for blue light illuminated from said light source;

“y” equals a value of the transmittance in said liquid crystal panel at a wavelength which corresponds to a maximum value of the intensity in the range of wavelengths designated for green light illuminated from said light source; and

“z” equals a value of the transmittance in said liquid crystal panel at a wavelength which corresponds to a maximum value of the intensity in the range of wavelengths designated for yellow light illuminated from said light source.

Claim 8 (New): A liquid crystal display apparatus according to claim 7, wherein the range of wavelengths designated for blue light illuminated from said light source corresponds to 400 nm to 500 nm, the range of wavelengths designated for green light illuminated from said light source corresponds to 500 nm to 600 nm, and the range of wavelengths designated for yellow light illuminated from said light source corresponds to 600 nm to 700nm.

Claim 9 (New): A liquid crystal display apparatus according to claim 7, further comprising:

a pair of polarizers arranged so as to sandwich a pair of substrates in said liquid crystal panel; and

a birefringent film arranged between a polarizer and a substrate.

Claim 10 (New): A liquid crystal display apparatus according to

claim 9, further comprising a plurality of electrodes provided on at least one of said pair of substrates in said liquid crystal panel to produce an electric field substantially in parallel with surfaces of said pair of substrates.

Claim 11 (New): A liquid crystal display apparatus comprising:
a liquid crystal panel;
a light source provided on a surface of said liquid crystal panel,
wherein said liquid crystal panel is displayed in a double refraction mode, and
has a characteristic of spectral transmittance required to satisfy the following
equation, $x > z$, when a drive voltage is applied thereto in the range of a minimum
voltage required for a visual display on said liquid crystal panel to a maximum
voltage, where:

“x” equals a value of the transmittance in said liquid crystal panel at a
wavelength which corresponds to a longest wavelength in the range of wavelengths
designated for blue light illuminated from said light source; and

“z” equals a value of the transmittance in said liquid crystal panel at a
wavelength which corresponds to a maximum value of the intensity in the range of
wavelengths designated for yellow light illuminated from said light source.

Claim 12 (New): A liquid crystal display apparatus according to
claim 11, wherein the range of wavelengths designated for blue light illuminated from
said light source corresponds to 400 nm to 500 nm, and the range of wavelengths
designated for yellow light illuminated from said light source corresponds to 600 nm
to 700nm.

Claim 13 (New): A liquid crystal display apparatus according to claim 11, further comprising:

a pair of polarizers arranged so as to sandwich a pair of substrates in said liquid crystal panel; and

a birefringent film arranged between a polarizer and a substrate.

Claim 14 (New): A liquid crystal display apparatus according to claim 13, further comprising a plurality of electrodes provided on at least one of said pair of substrates in said liquid crystal panel to produce an electric field substantially in parallel with surfaces of said pair of substrates.

Claim 15 (New): A liquid crystal display apparatus comprising:
a liquid crystal panel;
a light source provided on a surface of said liquid crystal panel,
wherein said liquid crystal panel is displayed in a double refraction mode, and
has a characteristic of spectral transmittance required to satisfy the following equation, $x > z$, when a drive voltage is applied thereto, from a dark state to a light state, where:

“x” equals a value of the transmittance in said liquid crystal panel at a wavelength which corresponds to a longest wavelength in the range of wavelengths designated for blue light illuminated from said light source; and

“z” equals a value of the transmittance in said liquid crystal panel at a wavelength which corresponds to a maximum value of the intensity in the range of

wavelengths designated for yellow light illuminated from said light source.

Claim 16 (New): A liquid crystal display apparatus according to claim 15, wherein the range of wavelengths designated for blue light illuminated from said light source corresponds to 400 nm to 500 nm, and the range of wavelengths designated for yellow light illuminated from said light source corresponds to 600 nm to 700nm.

Claim 17 (New): A liquid crystal display apparatus according to claim 15, further comprising:

a pair of polarizers arranged so as to sandwich a pair of substrates in said liquid crystal panel; and

a birefringent film arranged between a polarizer and a substrate.

Claim 18 (New): A liquid crystal display apparatus according to claim 17, further comprising a plurality of electrodes provided on at least one of said pair of substrates in said liquid crystal panel to produce an electric field substantially in parallel with surfaces of said pair of substrates.

Claim 19 (New): A liquid crystal display apparatus comprising:
a liquid crystal panel; and
a light source provided on a surface of said liquid crystal panel,
wherein said liquid crystal panel is displayed in a double refraction mode, and
has a maximum value of spectral transmittance in the wavelength region of 450 nm

to 490 nm of light illuminated from said light source, when a drive voltage is applied thereto, in the range of a minimum voltage required for a visual display on said liquid crystal panel to a maximum voltage.

Claim 20 (New): A liquid crystal display apparatus comprising:
a liquid crystal panel; and
a light source provided on a surface of said liquid crystal panel,
wherein said liquid crystal panel is displayed in a double refraction mode, and
has a maximum value of spectral transmittance in the wavelength region of 450 nm
to 490 nm of light illuminated from said light source, when a drive voltage is applied
thereto, from a dark state to a light state.